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1. MDA12-003: 3G and 4G Communication System Interference Remediation Techniques

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: This research seeks novel algorithms and signal processing techniques that will minimize Aegis-to-3G&4G and 3G&4G-to Aegis interference. Space-time, adaptive and other approaches are sought for broadest utility and generality. DESCRIPTION: The Missile Defense Agency (MDA) is seeking the development of novel RF modulation, timing and phasing as well as orthogonal and bi-static ...

SBIR Missile Defense Agency

2. MDA12-014: Acquisition, Tracking and Pointing Technologies for High Energy Laser Applications

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop and demonstrate advanced and innovative components, algorithms and electronics supporting next generation acquisition, tracking and pointing (ATP) sensor and jitter control technologies to provide support to future missile defense missions using significantly less components than traditional applications. Even though ATP is a broad topic, the MDA focus areas for this year are ...

SBIR Missile Defense Agency

3. DLA-002: Advanced Battery Technologies and Manufacturing Process Improvements

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: The Defense Logistics Agency (DLA) seeks to provide responsive, best value supplies consistently to our customers. DLA continually investigates diverse technologies for manufacturing which would lead to the highest level of innovation in battery products supporting fielded weapon systems (many of which were designed in the 1960"s, 1970"s and 1980"s) with a future impact on both commerci ...

SBIR Defense Logistics Agency

4. MDA15-001: Advanced Cognition Processing and Algorithms for Improved Identification

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Fixed measurements, features, and classifiers preclude systems from changing decision logic based on new information collected during an engagement, since tactical operational environments are often different from those used to collect or generate sample data. This potentially causes sensor bias thus ultimately impacts object classification. In addition, the sample data may vary form the actual da ...

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5. DLA-001: Advanced Forging Manufacturing Innovations

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: The Defense Logistics Agency (DLA) seeks to provide responsive, best value repair parts consistently to our customers, including forged parts which are made when metal is pressed or hammered under great pressure. DLA continually investigates diverse technologies for manufacturing forgings which would lead to the highest level of innovation in the support of fielded weapon systems wit ...

SBIR Defense Logistics Agency

6. MDA13-015: Advanced Hit Detection Systems

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Design, develop and ground test advanced hit detection systems (HDSs) applicable to multi-fragment blast kill devices, and/or very high speed intercepts with assured transmission of hit location to the ground. DESCRIPTION: Weapon systems that utilize a kinetic impact to damage a target rely on the accuracy of the aiming system. As a result, the accurate measurement of a weapon ...

SBIR Missile Defense Agency

7. MDA13-032: Advanced Liquid Propellants for Insensitive Munitions Compliant Interceptor Systems

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop and demonstrate liquid propellant formulations that meet Department of Defense (DoD) Insensitive Munitions (IM) requirements while maintaining high performance capability. The goal is to develop and demonstrate liquid propellants for advanced interceptor systems (boosters and Divert and Attitude Control Systems (DACS)) that can be proven to be safe for storage, handling, transp ...

SBIR Missile Defense Agency

8. DLA152-001: Advanced Manufacturing Technologies

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

DLA seeks drastically lower unit costs of discrete-parts support through manufacturing revolutions that also have applicability to low and high volume production from commercial sales. This will result in an improvement in the affordability of these innovations to DLA and its customers and the development of cost effective methods to sustain existing defense systems while potentially impacting the ...

SBIR Defense Logistics AgencyDepartment of Defense

9. MDA15-021: Advanced Reserve Battery Technologies

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Materials/Processes, Sensors OBJECTIVE: Seek innovative solutions to improve performance of the next generation reserve batteries. Improvements should allow for geometric flexibility of batteries, increased energy density, longer shelf life, and manufacturability. DESCRIPTION: Currently, a variety of reserve batteries power missile defense applications. These power sy ...

SBIR Missile Defense AgencyDepartment of Defense

10. MDA13-031: Advanced Solid Propellants for Insensitive Munitions Compliant Interceptor Systems

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop and demonstrate solid propellant formulations for large solid rocket motors (SRM) (21"diameter and up) that meet Department of Defense (DoD) insensitive munitions (IM) and MIL-STD-2105D requirements as well as 1.3C or better hazard classification while maintaining high performance capability. DESCRIPTION: Defending

against current and future ballistic missile threats re ...

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